

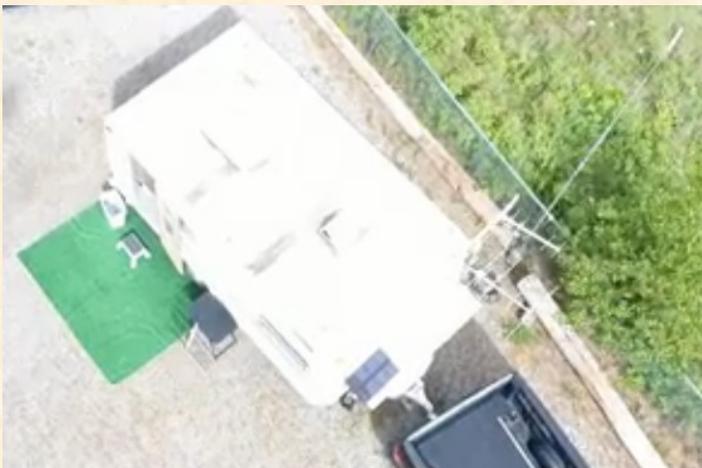


# KBARA Gazette

Summer 2016

## Field Day 2016 by Scott, KA7FVV

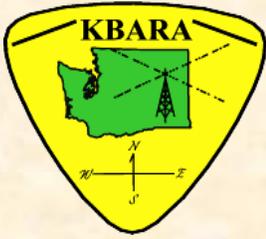
Valleyford Park was once again the location for this years Field Day. We were operating 4A EWA. We had three stations working battery/solar and one running off a generator. We had John, W7OE and Dan, KG7ZCW working CW. See John and Dan pictured below at the CW station. After everyone got setup and started operating on Saturday morning Betsy, N7WRQ and Jim, N7WRR started fixing us a great hamburger potluck lunch. After lunch we all continued making contacts. Jeff, KG7HZZ, Craig, W7CDP and Glen, K1RR were operating stations. Debby, W7TSE was busy making contacts at the GOTA station. We all operated until about midnight and then were back at it Sunday morning until we broke everything down around noon. Fun weekend was had by all!



Craig's drone spying on Scott, KA7FVV trailer station and Jeff's station during a local QSO session.



WE'RE ON  
facebook



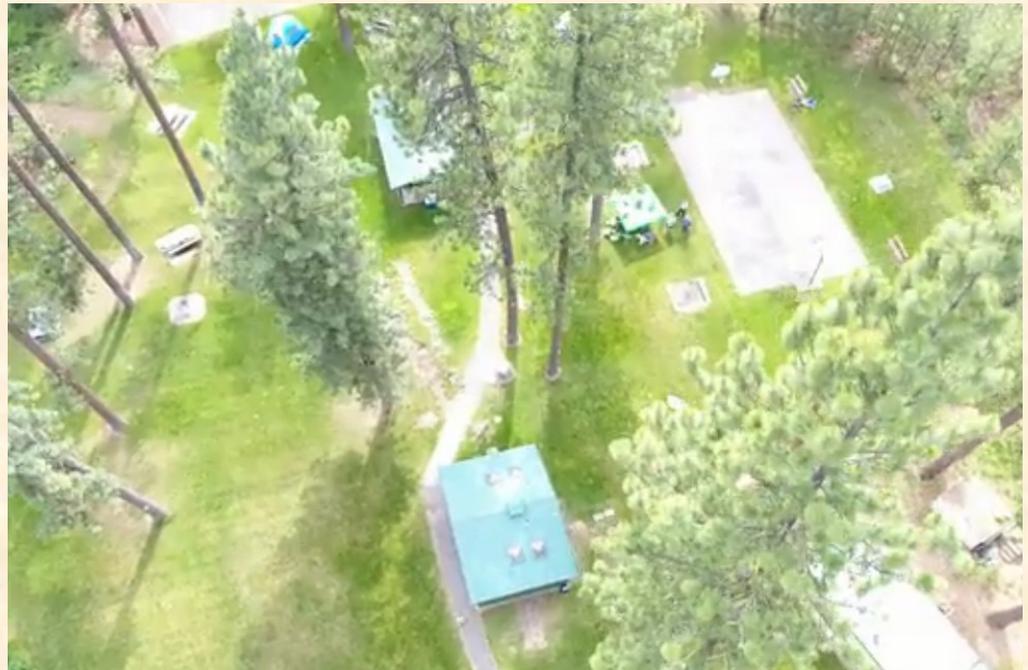
# Field Day continued...



Craig and Debby's station selfie via his drone



Jim shooting for the sky



Aerial view of Valleyford Park



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## A few words from our President

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KBARA Members,

I hope everyone is having a great summer and enjoying the start of our summer activities.

The first being Field Day which is highlighted on page 1 and 2.

Coming up fast will be our Annual Meeting and Hamout at Rotary Park in Oldtown, ID. We are a week later than usual this year due to scheduling conflicts at the park. July 29th through the 31st are our dates this year. Come up on Friday, July 29th if you want to stay overnight. We are all looking forward to Betsy's pancake breakfast on Saturday morning. Check out the flyer later in this newsletter. I hope to see everyone there. One business item we will be discussing at the meeting are changes to the club Standing Rules. The rules have not been updated since 2002. Please see the rules later in this issue with the changes highlighted in red. Please review these before the meeting.

And then we have the Hamfest coming up in September. Flyer also later in this issue.

We were hit hard over the winter with antenna damage on Stensgar. It was discovered that the link antenna was damaged and the feed line damage on the 147.36 repeater. I want to thank Glen, K1RR and Karl, AK2O for their work in troubleshooting the issues. A new link antenna and feed line are on order. Unfortunately an issue beyond our control, the link antenna is back ordered until July 27th. Once the new items arrive Glen and Karl will work on getting to the mountain top to make repairs.

Everyone have a great rest of the summer.

73,

Scott, KA7FVV, President KBARA



# 38<sup>th</sup> Annual HamOut and Meeting

**July 29 through 31, 2016**

147.360 will be  
talk-in frequency

This will be our third year in a row holding our annual meeting at Rotary Park in Oldtown, ID. Thanks once again to Daryl, KF7LWI.

A pancake breakfast will be served at 0800 on  
Saturday Morning.



The annual meeting will be held on Saturday, July 30<sup>th</sup> at 1300  
with a potluck lunch to follow.



Located across the river from Newport is a nice park with a paved parking area that includes seven power hookups for trailers/RV's (no water hookups), great grassy area for tents next to an air conditioned building.

Directions: From Spokane take Highway 2 to Newport. Go through Newport and cross the river and take your first right then an immediate right into the park.

# SPOKANE HAMFEST

The American Radio Relay League

## WASHINGTON STATE CONVENTION



September 24, 2016, 9AM-4PM

University High School

12420 E 32nd Ave, Spokane Valley WA 99216

Admission \$5 (age 18 & under – FREE)

East entrance on 32<sup>nd</sup> Avenue

Hosted by 6 Amateur Radio Clubs:



Northwest  
Tri-State ARO



SEMINARS, DEMOS, DISPLAYS, LICENSE EXAM; SWAP & COMMERCIAL TABLES; RAFFLE & DOOR PRIZES; REFRESHMENTS & FOOD

Three Prizes to be Raffleed ! 1<sup>st</sup> Yaesu FT-991 (HF-70cm C4FM Digital All Mode); 2<sup>nd</sup> Yaesu FTM-100DR (2M/70CM Dual Band C4FM/FM Mobile); 3<sup>rd</sup> Kenwood TM-281 (144 MHz 65 Watt FM Mobile)

\*\*\*\*\*

### Admission \$5

Age 18 & under FREE

### Commercial Tables \$15

Admission not included in the price of table space

### Swap Tables \$10.00

Admission not included in the price of table space

### Program Advertising

¼ page for \$25 to full page ad for \$100

### Free off-street parking for cars & RV's

Starting Friday, September 23

### Friday, September 23

Vendor setup: 6PM-7:30PM

### Saturday, September 24

Vendor setup: 7:30AM-9:00AM

Open to public: 9AM – 4PM

License Exam: 12PM

“Junque” Auction: 2:30PM

Raffle: 3:30PM

No-host Hamfest dinner: 5:00PM

Timber Creek Grill & Buffet

9211 E Montgomery Dr, Spokane Valley WA



# SPOKANE HAMFEST 2016 REGISTRATION

Name \_\_\_\_\_ Call Sign \_\_\_\_\_

Address \_\_\_\_\_

Phone number/E-mail address \_\_\_\_\_

_____	<b>Registrations @ \$5 each</b>	\$ _____
	Age 18 & under free	
_____	<b>Commercial tables @ \$15.00 each</b>	\$ _____
	Admission not included in the price of table space	
_____	<b>Swap tables @ \$10.00 each</b>	\$ _____
	Admission not included in the price of table space	
	<i>Tables available while they last</i>	
	<b>Total \$</b>	_____

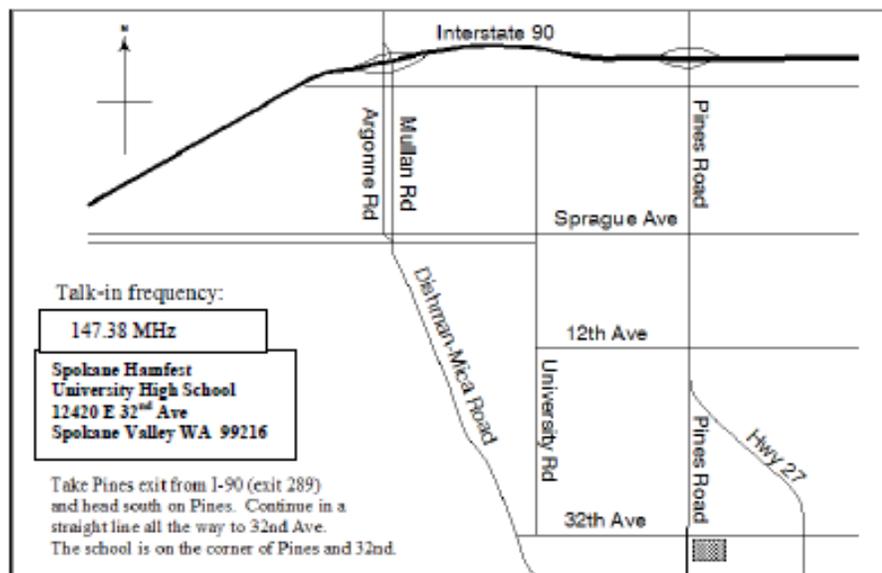
Please make checks payable to:

**SPOKANE HAMFEST:**  
**2910 E 57<sup>th</sup> Ave Ste 5**  
**PMB 255**  
**Spokane WA 99223**

Prepaid registrations will not be mailed -- they will be held at the ticket table, available for pickup beginning Friday, 9/23/2016, from 6 PM – 7:30PM.

**For additional information contact:** Betsy Ashleman N7WRQ  
509-448-5821  
E-mail: [n7wrq@aol.com](mailto:n7wrq@aol.com)  
[www.kbara.org](http://www.kbara.org)

The **SPOKANE HAMFEST** is an annual event hosted by seven Amateur Radio clubs: The Inland Empire VHF Radio Amateurs, Kamiak Butte Amateur Repeater Association, Northwest Tri-State ARO, Spokane DX Association, Palouse Hills ARC, & University High School ARC.





# Weather Satellite Reception

by Scott, KA7FVV

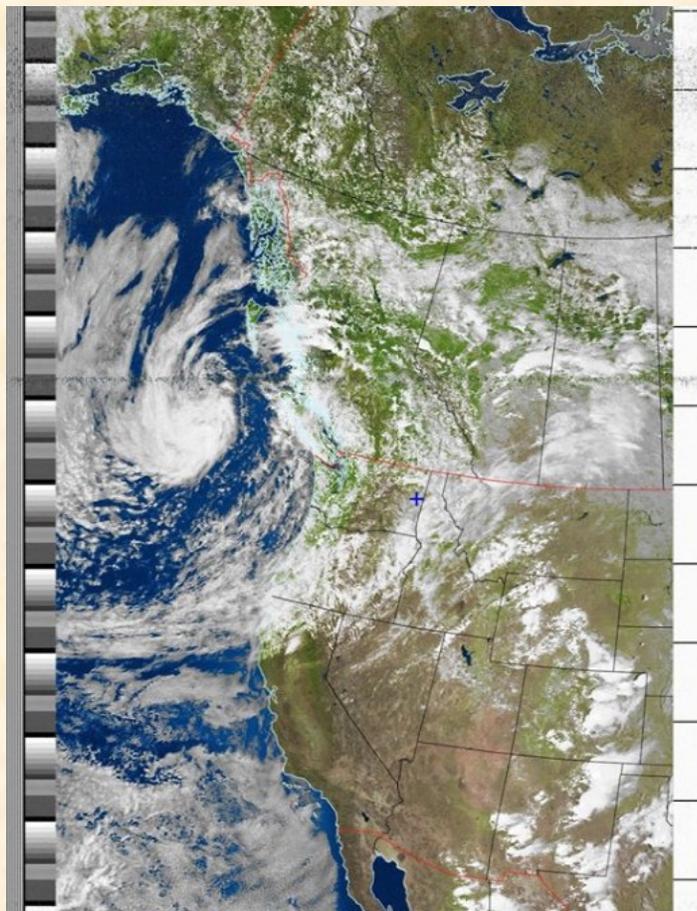
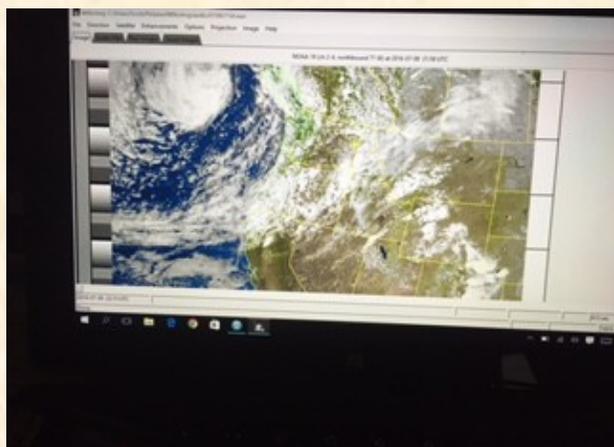
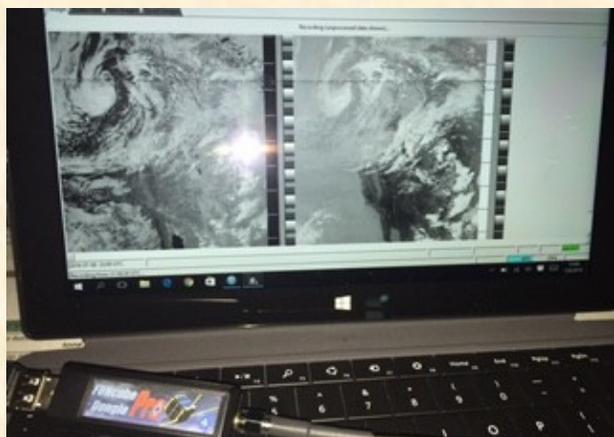
There was an interest at Field Day for a demonstration of weather satellite capture. Since everyone sees the captures that John, KD7AAT and myself post on Facebook. We are both using dedicated weather satellite receivers at our home QTH. I used the Funcube Dongle Pro+ which is a SDR receiver at Field Day. I plan on doing another demo at the Annual Meeting. This should also be possible using one of the RTL-SDR Dongles that several of us were experimenting with a while back.

I use SDR Console with the FCD and WxtoImg freeware version for the capture on my Surface Pro Tablet. Also using a virtual audio cable program to port the receiver audio into the WxtoImg program. Once the receiver and software are configured hook the receiver to a 2 meter beam antenna and your all set. See the pictures below. Upper left was taken during the capture, lower left is after the picture was processed and right is the entire pass with the noisy AOS and LOS ends removed.

If you want to try with a RTL-SDR dongle set it to wide FM at 48 khz depending on your software. Download the WxtoImg software at <http://www.wxtoimg.com>.

Satellite Frequencies: NOAA 19: 137.100, NOAA 18: 137.9125, NOAA 15: 137.620

Use your favorite tracking program to track the best passes for your QTH.





# Upcoming Hamfests and Events

Courtesy of N7CFO.com

**July 23. Chehalis Valley ARC 18th Annual Pacific Northwest Ham Radio Tailgate Swapmeet.** Lewis County Fairgrounds. *This is an ARRL sanctioned event.* Contact John Ellingson, K7OSK. [k7osk@boatanchor.com](mailto:k7osk@boatanchor.com) . <http://www.cvars.org/> [http://cvars.org/swapmeet\\_2016/Swapmeet%202016.pdf](http://cvars.org/swapmeet_2016/Swapmeet%202016.pdf)

**July 29-31. 38th Annual KBARA HamOut and Meeting.** Oldtown, ID. Contact Scott, KA7FVV at [ka7fvv@yahoo.com](mailto:ka7fvv@yahoo.com) . <http://www.kbara.org/>

**August. Highline Amateur Radio Club SwapFest.** DesMoines, WA. **CANCELED!**

**August 27. Seattle Fox Hunt, 2016.** <http://n1qg.com/foxfest/>

**August 5-7. 61st Annual Pacific Northwest DX Convention.** Portland, OR. **Sponsored by the Willamette Valley DX Club.** *This is an ARRL sanctioned event.* <http://pacificnwdxconvention.com/>

**August 13. Arctic Amateur Radio Club Hamfest.** Fairbanks, AK. *This is an ARRL sanctioned event.* <http://www.kl7kc.com/> Contact John S. Slater , KL1AZ, (907)488-5209, [hamfest@hughes.net](mailto:hamfest@hughes.net)

**August 20. Annual Clark County Amateur Radio Club (CCARC) Ham Fair,** Vancouver, WA. *This is an ARRL sanctioned event.* [clarkcountyhamfair@w7aia.org](mailto:clarkcountyhamfair@w7aia.org) or [www.w7aia.org](http://www.w7aia.org) . [Flyer in PDF.](#) (86K)

**August 21. Antique Radio Swap Meet. Puget Sound Antique Radio Association.** 9 AM to 1 PM. Shoreline Community College, 16101 Greenwood Avenue North, Shoreline, WA 98155. <http://www.pugetsoundantiqueradio.com/index> (Always the 3rd Sunday in August) [Flyer in PDF.](#) (160K)

**September 9-11. 20th Annual Northwest APRS/Digital Summer Gathering.** Valley Camp, North Bend, WA <http://valleycamp.org/> . Contact [k7fzo.thom@gmail.com](mailto:k7fzo.thom@gmail.com) . [2015 Photo Gallery](#)

**September 24. Washington State Convention (Spokane Hamfest)** Spokane Valley, WA. *This is an ARRL sanctioned event.* [Flyer in PDF](#) (430K) <http://www.kbara.org/> Contact, Betsy, N7WRQ. [n7wrq@aol.com](mailto:n7wrq@aol.com) (509)448-5821

**September 24. K7MVA tailgate Swap Meet,** Twin Falls, Idaho. [Flyer in PDF.](#) (1.3MB)

**October 7th & 8th. 2016 PNWVHFS conference, Bend, OR Pacific Northwest VHF Society Conference.** *This is an ARRL sanctioned event.* <http://www.pnwvhfs.org/conference/2016/announcement.html>

**October 8. Kitsap County Hamfest.** **[Note new location: The Filipino-American Community Center, 1240 Sheridan Rd, Bremerton, WA 98310]** *This is an ARRL sanctioned event.* Contact: Jim Nicolet, N7SYD, (360)874-0180. [hamfest@kcarc.org](mailto:hamfest@kcarc.org) <http://www.kcarc.org/>

**October 15. Swap-Tober-Fest.** Mid-Valley ARES. Polk County Fairgrounds, Rickreall, OR. [www.swaptoberfest.net](http://www.swaptoberfest.net) [Flyer in PDF.](#) (66K)

**November 6. Maple Ridge Swap Meet.** Pitt Meadows, BC. [http://rac.eton.ca/events/detail.php?event\\_ID=1816](http://rac.eton.ca/events/detail.php?event_ID=1816)

**February 18, 2017. Salem Hamfair & Computer/Electronics Swapmeet.** Rickreall, OR at the Polk County Fairgrounds. <http://www.w7sra.com> .



# Annual Meeting Minutes

## July 25, 2015

President Roger called meeting to order, 12:58.

### **President's Report:**

Roger has been happy serving as president. Hope the club continues on a great path, but will be retiring this year as president.

Moe check-in award goes to Mike, K7EHT for all he has done as both net control as well as net control host this year.

### **Treasurer's Report:**

Betsy supplied a complete treasurer report, and is filed with these minutes.

We have 113 members, which includes about 20 lifetime members.

### **Secretary's Report:**

Minutes from last meeting read and accepted.

### **Old Business:**

Nothing pending.

### **New Business:**

Mike held a net controllers meeting a couple of weeks back. Duff did a very nice power-point presentation at the meeting. We are always looking for new net controllers. Very nice certificates were also given out at the meeting to those who have been working as 7am NW Reg/International net controls. Jeff, KG7HZT is now replacing Mike K7EHT as net control manager. Also at the meeting they played recordings of how people sounded at net controls. Dennis KF7UTH said it was very informational and people learned about ways they could improve in the way they do nets. Dennis also said that he had a great time at the meeting.

Craig will continue as Spokane area regional rep. Questions were asked about what happened to the Friday night international IRLP net. Since the IRLP on our end creates too much noise for the net, it was explained that we really cannot participate in such a large network on IRLP nodes on a net. You can also hear that same net on the KBARA supported IRLP node, 3282 located in Spokane. It's on 147.400mhz SIMPLEX with a 100hz tone.

Washington State Convention updates given. 7 clubs will be hosting the event. Next planning meeting will be Thursday 5pm at Zips on Fancher and Trent in Spokane at 5pm. Prizes have already been purchased. Many seminars this year including ARRL Forum, RACES forum called "Cascadia Rising" about emergency communications. Scott KA7FVV will be hosting a forum about satellites, as well as a Yaesu System Fusion forum hosted by KG5AO and NV2Z. Also Jack AD7FO will host a forum about what you should do after receiving your ham ticket, or just after an upgrade.

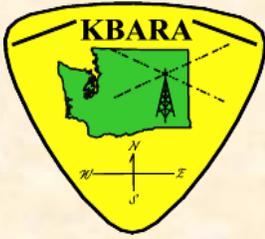
Motion made (and passed) to supply seed money of \$500 to the Spokane Hamfest.

Guy VA7GV will also talk to a friend of his, Mike who lives in Alberta and see if he would be willing to make the trip down and print signs/badges for us at the Hamfest.

### **Elections:**

New officials of the club were nominated, accepted (or unwillingly forced back into positions):

(Continued next page)



# Annual Meeting Minutes July 2015

President : Scott, KA7FVV

Vice-President: Duff, WA7BFN

Treasurer: Betsy, N7WRQ

Secretary: Glen, K1RR

## Repeater Owner Reports:

147.02 (From John) No problems with Lookout, but huckleberry picking good.

147.38 (From John) Noise still a problem. Glen has a new repeater for the site, and willing to try it at anytime, however after talking with Karl, everyone thinks that it's unlikely to help with the problem. It's still available and an option.

147.36 (From Glen) Who knows? Nobody has been there, but it's still on the air. We should probably make a trip up there and look things over before the winter time.

146.74 (From John) Jay pretty much takes care of everything. New System Fusion repeater will be going in soon. It is unknown if WiRES-X will be added to it to make it an internet connected repeater capable of linking it to other repeaters and systems around the world. Also a new link radio will be going in soon. Right now it's putting out very limited power, but with a new radio we shouldn't have some of the problems hearing Kamiak Butte like we do now.

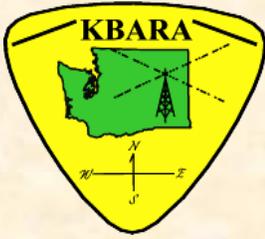
147.28 - Blew a fuse recently. John and Ken made the trip to fix it in Ken's truck. Fuse was probably blown out during a storm, and cut off power to the power supply for the repeater. On the way up Ken's truck blew a radiator (in the seam of the radiator) but Ken wanted to continue to the top anyway just to make sure the repeater was fixed and get it back on the air. Truck kept over heating on the way down, and they had to make multiple stops for water. It finally quit running altogether about 15 miles this side of Walla Walla. Jim and Syril were nice enough to go back down a few days later and retrieve the truck and bring it back to Spokane for Ken. They used Jim's truck, and Syril's trailer. Glen was the one who rescued them from Walla Walla on the day it broke down.

145.190 (From Glen) Seems to be working very well. Glen and Bob were talking at Field Day, and Bob's had some medical issues but Glen wanted Bob to know that no matter what happens with Bob there will always be a repeater on Elk Butte in Bob's honor. We don't expect anything to happen to Bob... and hope he still has another 100,000 miles on him... but Glen wanted it to be known that no matter what, we will keep a repeater there. Also, plans to install a digipeter at Elk Butte. While that's not directly involving the club, it will support APRS users in that general area. We can add a message on the digipeter about KBARA, and hope it will drive some more traffic to the repeater and to the club.

Discussion about the new "Elmer Net". Beginning on Wednesday the 5th of August we will have a new net following the KBARA Wed evening net. This will be a technical net combined with room for new comers to ask questions about the hobby. We hope that all kinds of people will eventually tune in and help answer questions; and people with questions will tune in and not be afraid of asking for help or advice. First topic will be "repeaters".

Discussions about the Seattle area punk. Tony W7EFS has been working with Jack W7HNH and Laura from the FCC. They have been recording the transmissions of the unknown station, and gathering as much evidence as possible to forward to the FCC. We have been turning off Spokane, but leaving the IRLP open so that Tony can record the conversations/transmissions.

(Continued next page)



# Annual Meeting Minutes July 2015

Also a thanks to Darrell and the Rotary Club for allowing us to camp out at the park. It was voted that we will do it again next year, July 29th, 30th, and 31st with the annual meeting being held at 1:00pm on Saturday, July 30th in Oldtown, ID.

Scott (new President) adjourns meeting at 14:02. Let's eat!

Signed Digitally : Glen Ahlborn, K1RR - Secretary

## YL Net - 7-7:30pm, Tuesdays

The YL net was started about a year ago, primarily for women hams however everyone is welcome to check-in. There was a very successful YL net years ago and we'd like to reestablish that net once again. It was started because there seems to be a lack of women who tend not to check into our nets that might have an interest but are afraid to talk for fear that they might say something wrong. There are no right or wrong topics, except for you know....

I know, I know that work thing tends to get in the way however we would like to encourage all women to check in. The net covers various topics such as; book, movies, your favorite recipe, family, even radio. If you have a favorite recipe you would like to share or a book your reading, tell us about it.

If you have a spouse, child or friends that would like to get a taste of ham radio, this is a good spot to get them on the air to see the joy in "Ham Radio". Third party check-in are always encouraged and welcomed. Don't be afraid, check-in. See you on the radio....

For more information, contact Debby, W7TSE at (509)690-4624 or Andrea, KF7SLW.

**KBARA Income & Expenses**  
**July 1, 2015 to June 30, 2016**

<b>Beginning Bank/Paypal Balances</b>	<b>\$9,236.63</b>
<b>Outstanding check # 1673 cleared</b>	<b>(\$50.00)</b>
<b>Income</b>	
<b>Memberships/Donations</b>	<b>\$3,789.12</b>
<b>Hamfest Profit</b>	<b>\$562.00</b>
<b>Hamfest Seed Money Returned</b>	<b>\$500.00</b>
<b>Total Income</b>	<b>\$4,851.12</b>
<b>Expenses</b>	
<b>Lookout Pass Site Rental</b>	<b>(\$367.68)</b>
<b>Pikes Peak Site Rental</b>	<b>(\$360.00)</b>
<b>Stensgar Site Rental</b>	<b>(\$200.00)</b>
<b>Elk Butte Site Rental</b>	<b>(\$300.00)</b>
<b>Repeater Repairs</b>	<b>(\$379.80)</b>
<b>Gasoline</b>	<b>(\$45.07)</b>
<b>Newsletter &amp; Postage</b>	<b>(\$48.75)</b>
<b>PayPal Fees</b>	<b>(\$38.94)</b>
<b>Post Office Box</b>	<b>(\$66.00)</b>
<b>Washington State Filing</b>	<b>(\$10.00)</b>
<b>Hamfest Seed Money Donation</b>	<b>(\$500.00)</b>
<b>KBARA Camp Out</b>	<b>(\$55.00)</b>
<b>Mike and Key</b>	<b>(\$18.00)</b>
<b>Bank Fee: Check Printing</b>	<b>(\$23.00)</b>
<b>Total Expenses</b>	<b>(\$2,412.24)</b>
<b>Ending Bank/PayPal Balances</b>	<b>\$11,625.51</b>

# THE KAMIAK BUTTE AMATEUR REPEATER ASSOCIATION STANDING RULES

Modified: March 24 and July 10, 2016

## I. NAME AND PURPOSE

**As noted in the Bylaws with this amendment and will cover any amateur repeater. Also includes IRLP (Internet Radio Linking Project) and Echolink connections to the KBARA system.**

## II. MEMBERSHIP

A. Termination of, as per Bylaws

1. Full or family members
2. Honorary
3. Life
4. Association Officer
  - a. Supporter terminations will be handled by a majority vote of the membership.
  - b. Officer terminations will be handled by the Board.

B. Grounds, as stated in the Bylaws:

1. And/or willful or malicious actions opposed to the welfare of the Association and/or its goals.
  2. And/or misuse of privileges granted to Officers of the Association.
- C. Repeater owners and licensed amateurs residing at the same residence that are members of the immediate family shall have full member privileges for as long as they own the repeater and are part of the Kamiak Butte Amateur Repeater Association.

## III. DUES

A. Henceforward, dues increases will be determined by the Board and approved by a simple majority of the membership in attendance at the annual business meeting.

B. Supporters who have not paid the annual dues by 15 February shall be dropped from the roster and mailing list.

C. The period of membership covered by dues is generally from 1 January through 31 December; however, any renewals or new members paying the full amount after September 1 will be considered paid through the following calendar year.

1. Kamiak Butte Amateur Repeater Association should be represented at all local hamfests.
2. Members or Officers should man a "booth" for the purposes of answering questions, receiving dues and dispensing informational literature applying to Kamiak Butte Amateur Repeater Association.
3. **Dues can be received via direct payment at the local hamfests, by mail to the club P.O. Box or via Paypal electronic payment via the kbara.org website.**

## IV. MEETINGS

A. No "meetings" via the radio or repeaters will be held so long as such action shall violate FCC Rule 97.113.

B. The weekly net shall be held each Wednesday evening on the linked repeater system and shall not be construed as an Association meeting, but, merely as a "gathering" of all interested amateurs who wish to check in and be acknowledged.

C. Meetings to be held in the fall and in the spring will be held to determine their value in running of the association and developing goodwill.

D. A major business meeting shall be held once a year, in June or July, to be known as the KBARA Campout or KBARA Picnic.

## V. ASSOCIATION OFFICERS

A. Bank checking account requires signatures of any two of the following: the elected officials or the Technical Director.

B. The day to day affairs of the Kamiak Butte Amateur Repeater Association shall be governed by elected officers consisting of the President, Vice President, Secretary and Treasurer. The majority of the Officers shall have full power to make decisions, but may not authorize expenditures of more than \$500.00 for any one action, with the exception of repeater sites rental, without notifying the members of the need for a large expenditure. The members shall be informed of these proceedings on the Wednesday evening KBARA net.

## VI. DUTIES OF OFFICERS AND COMMITTEES

A. President

1. Maintains contact with the Repeater Owners for the purpose of developing the repeater system.
2. Appoints an editor to the newsletter.

B. Vice President

1. Works with the Net Manager.
2. Is the Board contact for Regional Representatives.

(continued next page)

C. Secretary

1. Works with the Treasurer to maintain the membership records.
2. Makes arrangements for meetings.

D. Treasurer

1. Works with the Secretary to maintain the membership records.
2. Serves on the Awards committee when the occasion arises.

E. Technical Director shall be John P. Dempster, W7OE, so long as he shall be the majority owner of the repeaters being supported by Kamiak Butte Amateur Repeater Association.

1. Technicians serving the regional repeaters shall be directly under the supervision of the Technical Director.
2. The Technical Director shall provide instructions for controlling some functions of the Kamiak Butte Amateur Repeater Association system; but, may or may not include the special codes which also affect the Evergreen Intertie.

F. Newsletter Editor

1. Publishes a newsletter on a quarterly basis.
  - a. "Spring" issue to include a roster of the users paid for the current year.
  - b. "Summer" issue to include a report of the annual meeting.
  - c. Paid advertising is not provided for, but is at the discretion of the Board.
2. Maintains contact with the Secretary and Treasurer who comprise a membership committee in order to have an up-to-date mailing list per issue.

G. Net Manager

1. Oversees the **daily 0700 Sunday-Saturday net**, Wednesday evening net.
2. **Will schedule net control operators to cover the above nets and cover as net control as needed. Net manager will do everything possible to ensure that the 0700 Sunday-Saturday nets and the Wednesday evening nets are staffed.**
3. May or may not be a control operator of the system.

H. Regional Representatives shall be appointed by the Board to represent Kamiak Butte Amateur Repeater Association as user contacts in outlying areas.

1. The term area is used to generally define the coverage limits of individual repeaters.
  - a. Overlapping of areas is to be expected on the fringes.
  - b. Conflicts of Ambassador opinions will be brought before the Board for review and resolution.
2. Regional Representatives will contact new users to acquaint them with Kamiak Butte Amateur Repeater Association.
3. Regional Representatives will help maintain circuit discipline if problems should arise within their area.
4. Regional Representatives will make themselves available to address any concerns of users within their area and will bring them to the Board for review and resolutions.
5. Regional Representatives can hold regional meetings for the purpose of furthering the progress of Kamiak Butte Amateur Repeater Association's goals.
6. Regional Representatives will help arrange for any Association meetings to be held in their region.
7. Regional Representatives may or may not be Control Operators of the system.

**I. Web Master shall be appointed by the Board or by volunteer appointment will maintain the KBARA.org web page on a regular basis. Keeping information up-to-date as possible so this is a central source of information about the club and the repeater system.**

## VII. NOMINATIONS AND ELECTIONS

A. Nominations for officers of Kamiak Butte Amateur Repeater Association...

B. Elections shall follow the annual business meetings, enabling outgoing officers to submit their final reports.

1. Candidates must be members in good standing.
2. Candidates unable to attend the meeting shall provide written acceptance of the office if elected.

C. Installation of new officers shall precede the closing of the meeting, new officers then closing the meeting.

## VIII. USE OF REPEATERS

**Repeaters are open to all licensed radio amateurs that operate in accordance with FCC Part 97 Rules and Regulation. Request for activities on the system other than the regularly scheduled nets shall be discussed and voted on by the officer(s), repeater owners and net manager. Any needed action against users of the system for interference or malicious use, be it members or non-members, shall be discussed and voted on by the officers and repeater owners. The final determination shall be made by the KBARA repeater owners.**

(continued on next page)

**IX. SUPPORT OF REPEATERS**

**Financial support for repeaters that are part of the KBARA system shall be for replacement of items such as power supplies, feedline and antennas. Any replacement beyond peripheral items listed above will be discussed among the officers. Repeater site rental shall be a KBARA covered expense. Expenses as deemed by the officers of the club. If the expense is over \$500, the members must concur. Replacement repeater equipment approved by club officers and purchased by KBARA becomes the property of the repeater owners.**

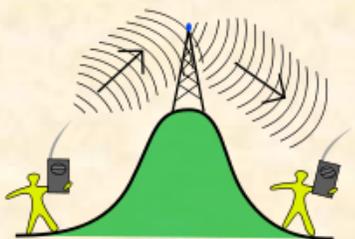
**IX. CHANGES IN STATUS OF REPEATERS/Echolink/IRLP**

**Control of repeaters/Echolink/IRLP will be at the discretion of the repeater/node owners and control operators. If there is ever a need to disconnect a repeater from the system due to interference/link issues, etc a QST announcement will be done over the system and email contact with club officers advising them of the action and the reason why. Same request for Echolink/IRLP due to internet interruption and/or link issues. Repeater/node owners will advise the officers the estimated time of returning the repeater/node and return the repeater/node to normal use in the shortest possible time.**

**In turn the Club Officers can advise the membership of the system outage.**

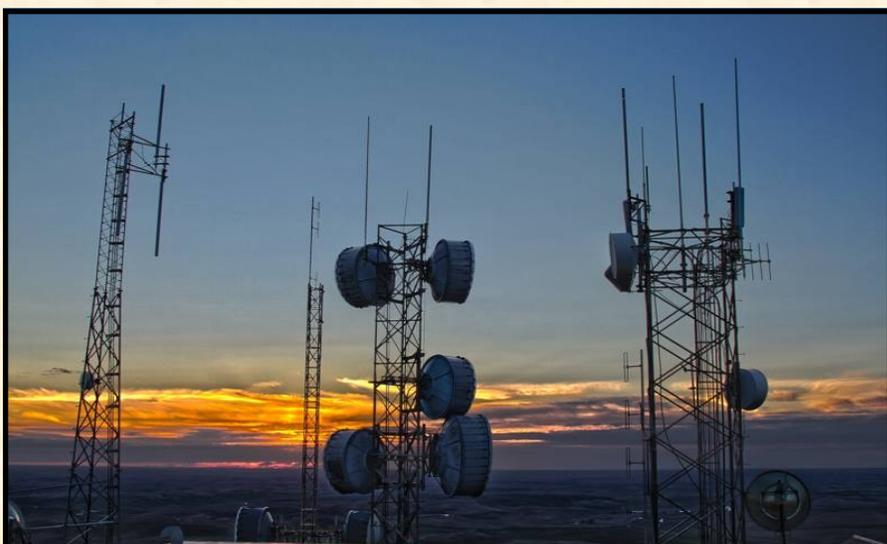
**X. AMENDMENTS**

**A. Changes to the Kamiak Butte Amateur Repeater Association Standing Rules may only be ratified by a quorum of Board and subject to approval by the membership by written ballot or simple majority vote at the annual meeting.**



# KBARA Repeaters and Echolink/IRLP Nodes

Frequency	CTCSS Tone	Location	Callsign	RF Link
<b>Repeaters</b>				
146.74 Mhz	None	Kamiak Butte	W7HFI	AK2O—223.90
223.90 Mhz	None	Stensgar Mtn	AK2O	Hub
147.38 Mhz	None	Mica Peak	W7OE	AK2O—223.90
147.36 Mhz	None	Stensgar Mtn	AF7JB	Hard wired Hub
147.02 Mhz	None	Lookout Pass	K7HPT	W7OE—147.38
147.28 Mhz	None	Pikes Peak	KD7DDQ	AK2O—223.90
53.75 Mhz	100.0 hz	Kamiak Butte	N7ZUF	Linked
145.19 Mhz	None	Elk Butte	KF7WOR	AK2O—223.90
<b>Links</b>				
Echolink KB7ARA-R	N/A	Spokane, WA	K1RR	AK2O - 223.90
IRLP Node 3636	None	East Tiger Mt	KB7ARA	145.33 & Ref 9075
IRLP Node 3638	None	Spokane, WA	K1RR	AK2O—223.90 & Ref 9075
147.400 Simplex IRLP Node 3282	100.0 hz	NW Spokane, WA	K1RR	IRLP Only



**KBARA Membership / Support Information:** The KBARA repeater system consists of several privately owned linked Amateur Radio repeaters. It covers an area from northeastern Washington to northeastern Oregon, and from western Montana to central Washington. The KBARA system is also part of the Evergreen Intertie, an interconnected group of repeaters located in western Washington and Oregon. The primary purpose of the KBARA repeaters is to provide a means for emergency communications within the above areas, and secondarily for routine radio traffic. It makes possible a single system of mobile communications coverage, extending the limited range provided by any single repeater operation. The KBARA FM repeaters operate in the VHF bands and are linked by UHF radios. All licensed Amateur Radio operators are welcome to use this open repeater system. Your support would also be greatly appreciated. Please visit this site for more information:

<http://www.kbara.org> and visit <http://groups.yahoo.com/group/evergreenintertie>



To support KBARA, please send your contributions to:



**KBARA**  
**PO Box 30801**  
**Spokane WA 99223-3013**

Annual support is \$15 per calendar year for a single membership and \$20 for a family membership. Dues are due in January of each year and if paid between September 1 and December 31, they will be applied through the entire following year. Also, any contribution will be gladly accepted to the Repeater Fund. This can also be done via Paypal on our webpage at [www.kbara.org](http://www.kbara.org).

**KAMIAK BUTTE AMATEUR REPEATER ASSOCIATION**

**PO Box 30801**

**Spokane WA 99223-3013**

